

# alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

## BETA 4

### 4" Cylinder Warm Dim



#### 25° - 80° BEAM

(Note: Specifications are subject to change without notice)

#### DYNAMIC COB PERFORMANCE DATA

LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	760LM @30K/97CRI	14W
15LM	1470LM @30K/97CRI	26W
20LM	1700LM @30K/97CRI	30W
25LM	2120LM @30K/97CRI	38W
Notes	Delivered lumens based on WH70, 3000K (see page 2)	



#### FEATURES

- Seamless extrusion with powder coated finish for clean aesthetics
- Thermally optimized for longevity
- 25° - 80° beam spread
- UGR < 19
- Micro slim canopy option at 1/4"-3/8" depth plus 1/2" diameter stem.
- Multiple mounting, glare control options, trims and finishes available

#### DIMMING AND CONTROLS

- Flicker free 0-10V dimming to 1%
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Lutron Hi-lume premier ecosystem dimming to 1%
- Casambi bluetooth dimming to 1%

#### CONSTRUCTION

- Extruded aluminum housing
- Lexan™ (PC) Optimal connectivity for wireless control signal
- Machined aluminum canopy
- SVT pendant cord

#### LED

- Luminus Dim-to-warm COB: 97 CRI: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L<sub>70</sub> > 54,000 hrs
- Dim to Warm from 3000K - 1800K.

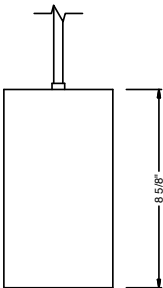
#### LISTING

- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- Suitable for dry and damp locations
- Made in the USA - meets the requirements of the Buy American provision within the ARRA
- 5 Year Limited warranty

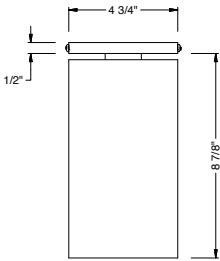
#### ELECTRICAL

- 120V-277V, 120 only Triac / ELV
- Power factory ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7 W, 10W (T20 CEC) and 12W EM 90min battery

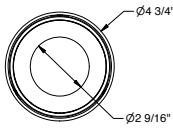
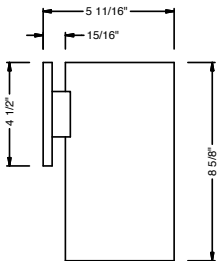
#### PENDANT



#### SURFACE MOUNT



#### WALL MOUNT



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ORDERING CODE			

ORDERING CODE						
SERIES	BETA	BETA				
TYPE	4R	4" round				
LED	WD	warm dim (Luminus)				
DELIVERED LUMENS	10LM	760 lm				
	15LM	1470 lm				
	20LM	1700 lm				
	25LM	2120 lm				
	Standard Configuration: 3000K HE60					
CCT	3018	3000K, dim to 1800K	CCT AT LIGHT LEVEL (%LF)			
			%LF	20LM	15LM	10LM
			100%	3000	3000	3000
			50%	3000	3000	2800
			25%	2800	2500	2300
			10%	2200	2000	1900
			5%	1800	1800	1800
CRI	97	97 CRI				
OPTIC & LM MULTIPLIER	HE40	40° high efficiency diffused lens (0.99)				
	HE60	60° high efficiency diffused lens (0.93)				
	HE70	70° high efficiency diffused lens (0.94)				
	SS25	25° semi-specular with clear lens (0.94)				
	SS35	35° semi-specular with clear lens (0.91)				
	SS55	55° semi-specular with clear lens (0.91)				
	D40	40° diffused with clear lens (0.91)				
	D55	55° diffused with clear lens (0.94)				
	WH70	70° brilliant white with clear lens (1.00)				
ACCESSORY	HCL <sup>1</sup>	honeycomb louver				
	Attached to bezel					
FINISH	BK	black				
	WH	white				
	MC	matte chrome				
BEZEL COLOR	BK	black (0.98)				
	WH	white (1.00)				
	MC	matte chrome (0.99)				
	BZ	bronze (0.98)				
	WT	wheat (0.99)				

ORDERING CODE		
MOUNTING OPTIONS SEE PAGE 5	W	wall mount
	S	surface mount
	JCOV-S	conduit junction box cover with knockouts, surface
	P	pendant, 108" flexible cord
	RP	rigid pendant 4' stem with swivel stem/canopy
	RP5	rigid pendant 5' stem with swivel stem/canopy
	RP6	rigid pendant 6' stem with swivel stem/canopy
	RP8	rigid pendant 8' stem with swivel stem/canopy
	RP10	rigid pendant 10' stem with swivel stem/canopy
	RPF2	rigid pendant 2' with fixed stem/canopy
	RPF3	rigid pendant 3' with fixed stem/canopy
	RPF4	rigid pendant 4' with fixed stem/canopy
	RPF6	rigid pendant 6' with fixed stem/canopy
	JCOV-XX <sup>2</sup>	conduit junction box cover with knockouts, complete XX code with desired pendant mount
VOLTAGE	120	120V
	UNV	120V-277V
DIMMING	DIM10	0-10V dimming to 1%
	LUTP <sup>3</sup>	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1 <sup>4</sup>	leading & trailing edge (Triac/ELV) dimming to 1%
	CAS	Casambi Bluetooth control with flicker free 1% dimming
ELECTRICAL OPTIONS	EM7	remote emergency battery backup, 90 minutes at 7 watts to LED
	EM12	remote emergency battery backup, 90 minutes at 12 watts to LED
	EM10CA20	remote emergency battery backup, 90 minutes at 10W to LED, CA title 20

YOUR COMPLETED ORDERING CODE	
Follow the steps to specify your fixture, example:	
BETA - 4R - WD - 15LM - 3018 - 97 - HE40 - WH - WH - P - UNV - DIM10 - EM7	

### NOTES

1. HCL not available with lens. Multiplier: Delivered lumens (0.80) / beam spread (0.80).
2. JCOV not available with RP mounting.
3. LUTP not available in 10LM.
4. ELV1 available in 120V.

\*Warm Dim CCT values at X% are for reference. Actual CCT may vary.

\*Slim canopy with rigid stem connection shall be used in jurisdictions that DO NOT require light fixtures to freely swing in lateral directions, complying with local and national building codes.

\*RP mounting with swivel is recommended to be installed on a 4in square or 4in deep regress 2-1/8" octagonal junction box.

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## BEZEL OPTIONS

### BEZEL COLORS



## OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20
- UGR calculation based on 15LM fixtures, unless otherwise noted.



OPTIC	BEAM ANGLE	UGR
SS25	26.1	15
SS35	34.7	15.3
SS55	57.5	17.5
D40	38.7	16.4
D55	56.8	19.6
WH70	73.5	25.5
WH70	71.9	25.4



OPTIC	BEAM ANGLE	UGR
HE40	43.1	20.3
HE60	60.5	23.7
HE70	70	25.4

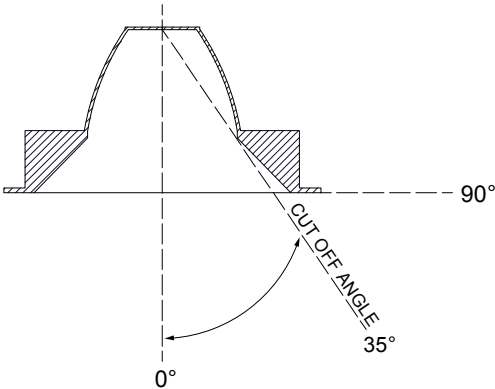
## GLARE CONTROL

### CUT-OFF ANGLE

Visual comfort is achieved with a lower cut-off angle due to improved glare control. The smaller the cut-off angle, the easier it is on the eye.

Alphabet downlights have been thoughtfully engineered to eliminate glare while still delivering functional illumination.

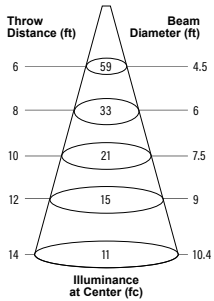
- Cutoff angle of NL and CL is 35 degrees

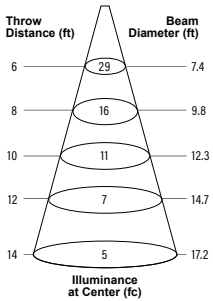


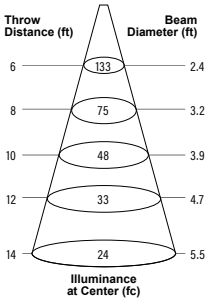
PROJECT INFORMATION		
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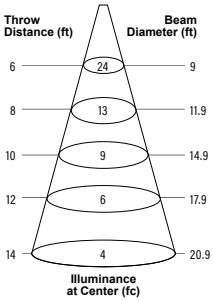
## PHOTOMETRIC DATA

15LMCCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance <sup>2</sup>		

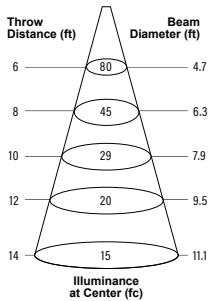
HE40 41° HIGH EFFICIENCY DIFFUSED LENS	
	
WATTS: 25.6	LPW: 56.9
LUMENS: 1455	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2133
5	2041
15	1449
25	797
35	403
45	194

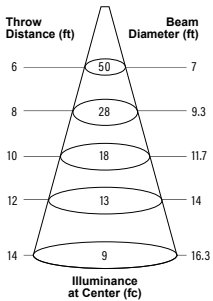
HE60 61° HIGH EFFICIENCY DIFFUSED LENS	
	
WATTS: 25.6	LPW: 52.1
LUMENS: 1334	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1052
5	1031
15	886
25	671
35	453
45	269

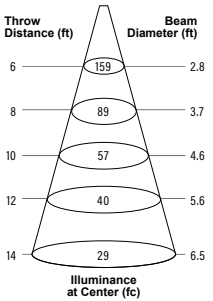
SS25 22° SEMI-SPECULAR WITH CLEAR LENS	
	
WATTS: 25.6	LPW: 53.8
LUMENS: 1377	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	4791
5	4103
15	1636
25	716
35	306
45	30

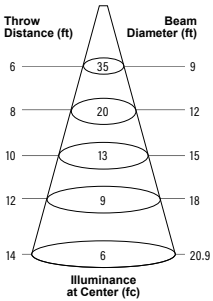
WH70 73° BRILLIANT WHITE WITH CLEAR LENS	
	
WATTS: 25.6	LPW: 57.4
LUMENS: 1470	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	862
5	859
15	828
25	778
35	529
45	244

25LMCCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance <sup>2</sup>		

HE40 43° HIGH EFFICIENCY DIFFUSED LENS	
	
WATTS: 37.8	LPW: 55.5
LUMENS: 2099	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2874
5	2761
15	2024
25	1170
35	607
45	288

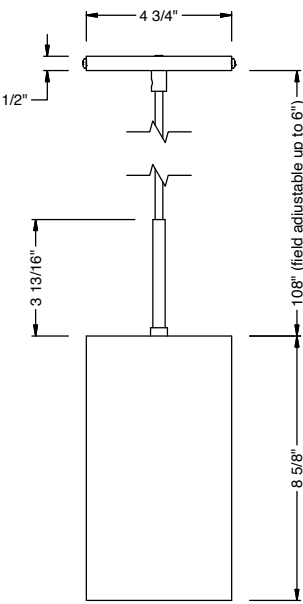
HE60 61° HIGH EFFICIENCY DIFFUSED LENS	
	
WATTS: 37.8	LPW: 53.3
LUMENS: 2016	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1817
5	1784
15	1543
25	1144
35	705
45	355

SS25 26° SEMI-SPECULAR WITH CLEAR LENS	
	
WATTS: 37.8	LPW: 52.5
LUMENS: 1985	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	5715
5	5174
15	2410
25	1093
35	440
45	46

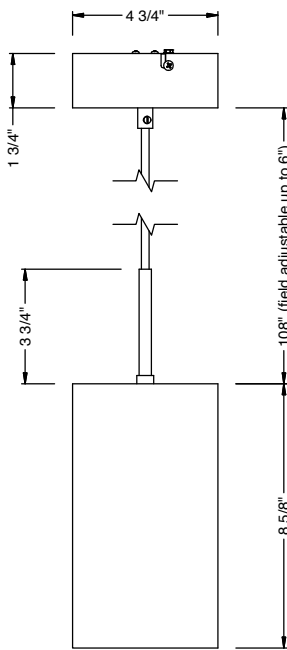
WH70 74° BRILLIANT WHITE WITH CLEAR LENS	
	
WATTS: 37.8	LPW: 56.1
LUMENS: 2120	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1253
5	1248
15	1207
25	1135
35	748
45	345

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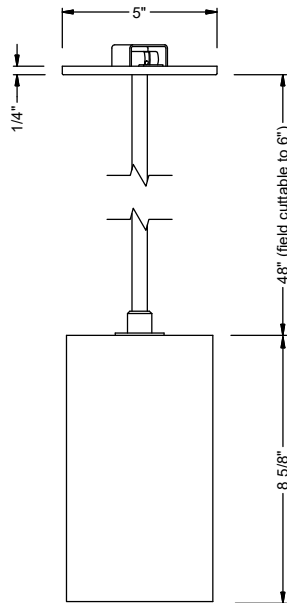
## MOUNTING OPTIONS



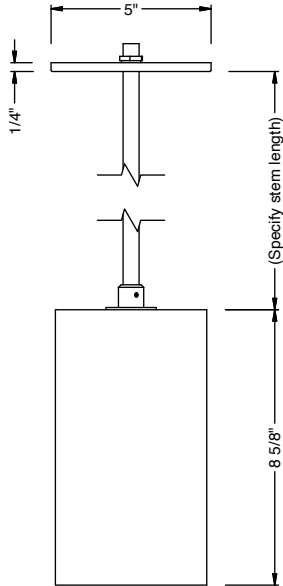
PENDANT  
ELV1 / CAS



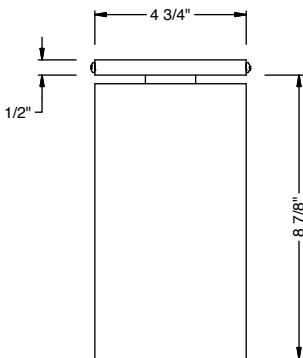
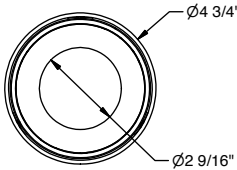
PENDANT  
DIM10 / LUTP



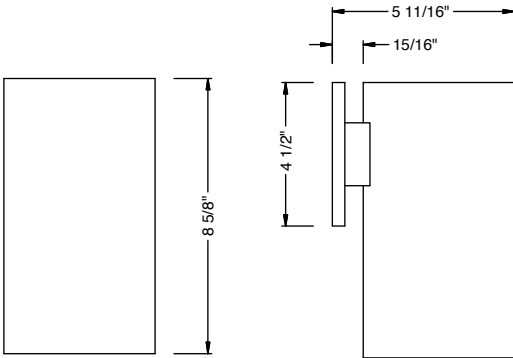
RP SWIVEL  
DIM10 / ELV1 / CAS



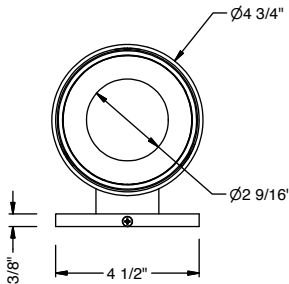
RP FIXED  
DIM10 / ELV1 / CAS



SURFACE MOUNT  
DIM10 / ELV1 / LUTP / CAS



WALL MOUNT  
DIM10 / ELV1 / LUTP / CAS



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BATTERY OPTIONS

EMERGENCY BATTERY

IOTA's ILB battery backups are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the ILB switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single can. The constant power design of the ILB maintains the output wattage to the LED array even as the system voltage diminishes. UL 924 Listed for U.S. and Canada. UL 1310 Certified, output class 2 compliant. Includes single-piece TBTS test switch and charge indicator accessory kit. For use with switched and unswitched fixtures, and includes two-wire universal AC input. Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting requirements. Rated for use in plenum, damp location, recessed type IC, and enclosed and gasketed luminaires.

REMOTE TEST SWITCH

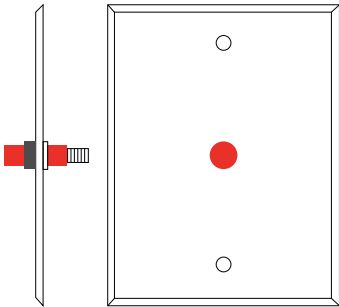
The remote test switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is recommended for ease of service.

REMOTE LOCATION

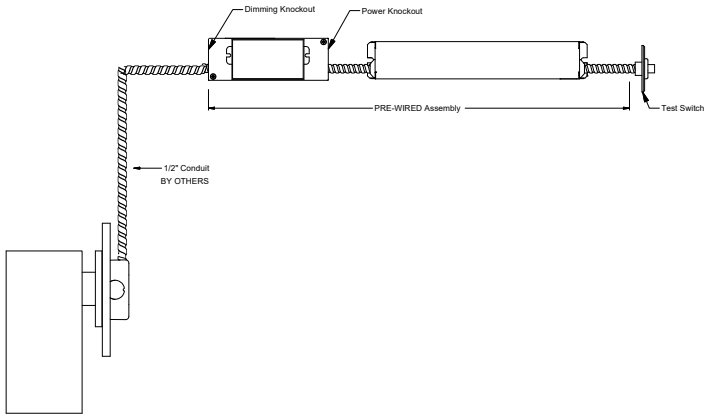
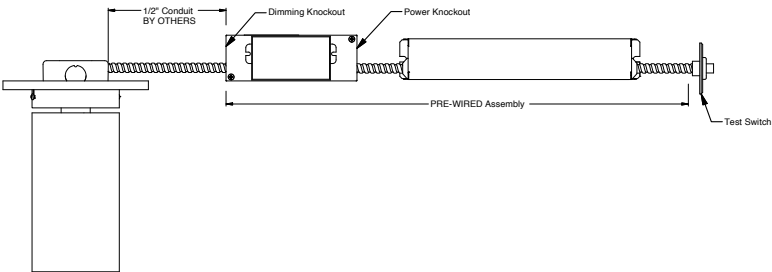
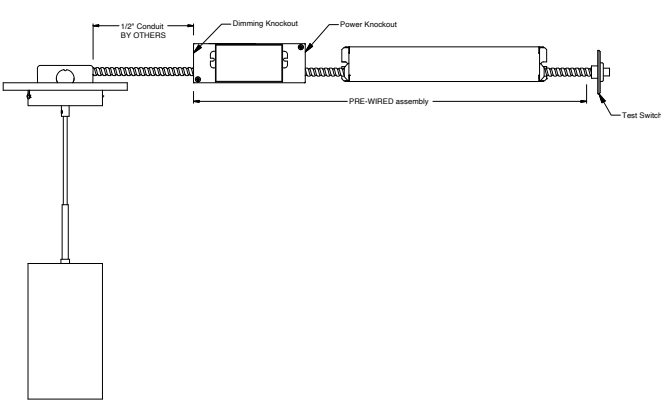
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all local and national electric/building codes.



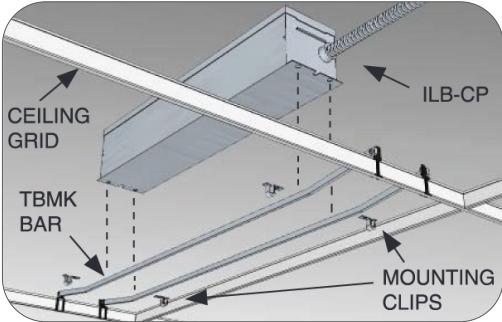
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 20LM)	560LM	800LM	960LM
Notes: Based on 30K, 97CRI			

REMOTE BATTERY



Accessory  
76066 Optional T-Grid Mounting Kit<sup>1</sup>



1. Can be used with any of the Emergency Battery Backups. Must be ordered as a separate line item.